PERFORMANCE DATA SHEET

3213



For maximal recovery of contents please quick spin vial before opening

Human CD269(BCMA)-mulg Fusion Protein*

CATALOG#: 519-020 QUANTITY: 25 µg

CONCENTRATION: 0.5 mg/ml

Molecular Structure: A soluble molecule consisting of the extracellular (54aa) domain of human BCMA fused to the

murine IgG2a Fc (232 aa). Predicted monomeric weight: 33 kd.

Transfectant Cell Line: CHO

INFORMATION: The human B cell activating factor (BAFF) and APRIL(a proliferation inducing ligand) are both type II molecules belonging to the TNF superfamily. They are expressed by non-B cells, and are down regulated by mitogenic stimulation(2). BAFF and APRIL bind to at least two receptors: TACI (transmembrane activator and CAML-interactor) and BCMA (B cell maturation antigen), both of which are restricted to B cells(3,4). Ligation of these receptors with recombinant BAFF dramatically increases IgM production by peripheral blood B cells(1). A third receptor for BAFF (BAFF-R) was described(5). BAFF and BAFFR knockout mice have a reduced numbers of mature B cells in the periphery, however TACI and BCMA knockouts do not share this phenotype, suggesting that BAFFR may the primary receptor for BAFF in mice(8,9,10). Cell surface BAFF can be proteolytically cleaved to form a soluble trimeric molecule(2). Levels of soluble BAFF correspond with levels of autoantibodies in Sjogren's Syndrome(11). Recombinant human BCMA-muIg binds to recombinant BAFF-muCD8 and can inhibit binding of this molecule to receptors on Raji cells.

References: 1) Schneider P., J. Tschopp, et al. *J. Exp. Med.* 1999, 189(11):1747-1756. 2) Shu, H.B., H. Johnson, W.H. Hui. *J Leukoc Biol* 1999, 65:680-683. 3) Marsters, S.A., A. Ashkenazi, et al. 2000, *Curr Biol* 10:785-788. 4) Xia, X., H. Hsu, et al. 2000, *J Exp Med*, 192(1): 137-143. 5) Thompson J.S., C. Ambrose, et al. Science 2001, 293: 2108-2111. 6)Roschke, V, T.S. Migone, et al. *J Immunol*. 2002, 169: 4314-4321. 7) MacLennan, C.M., C.G. Vinuesa, 2002, *Immunity* 17:235-238. 8) B. Schiemann, et al. (2001) *Science* 293: 2111-2114. 9) S.M. Harless, et al. (2001) *Curr Biol* 11: 1988-1989. 10) *Mol Cell Biol* (2001) 21: 4067-4074. 11) X. Mariette, et al. (2003) *Ann Rhem Dis* 62: 168-171.

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date:______

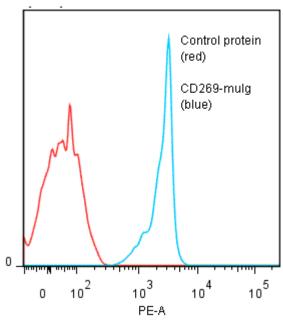
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Human BCMA-muIg fusion protein was purified from (low FBS containing) tissue culture supernatant of CHO transfectants using Protein A and size exclusion chromatography. Product was 0.2µ sterile filtered and vialed under aseptic conditions.

PERFORMANCE: CD269(BCMA)-muIg bound to BAFF-coated CML beads at **1 ug/ml** in FACS using GAM/FITC detection. Beads stained positive with a **1.17** log shift compared to muIgFc Control Protein (Cat # 581-020).

*Research use only. Not for use in Diagnostic procedures.

Binding of CD269(BCMA)-mulg +GAM/FITC to BAFF-coated CML



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